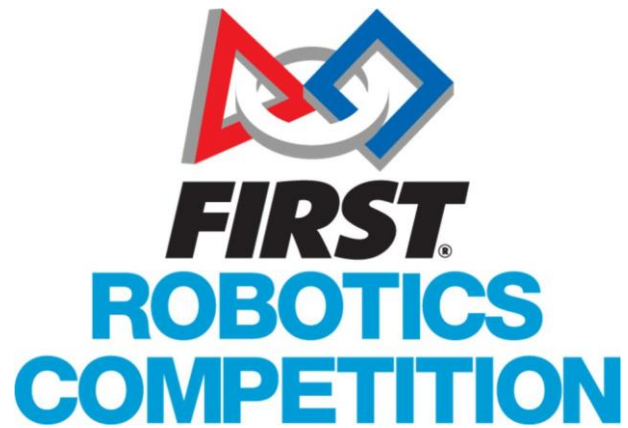


Miami Valley  
Regional  
EVENT  
HANDBOOK



**INFINITE  
RECHARGE**



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## Welcome!

### **Welcome to the Miami Valley FIRST® Robotics Regional Competition**

FIRST® (For Inspiration and Recognition of Science and Technology) is a partnership of students, teachers, administrators, parents, corporate mentors, and community volunteers whose common goal is to create a challenging, hands-on environment that helps students grow into future engineers, scientists, inventors, and business people. Along the way, there's ample opportunity for personal development and achievement.

We are excited to host the 9<sup>th</sup> annual FRC competition in the Great Miami River Valley. The appeal of the contest is clearly demonstrated by the great teams participating in this event. We are also pleased to promote the college scholarships available to our *FIRST* competitors - totaling over \$80 Million. It is our hope that every school district in the Miami Valley Region will be involved in a *FIRST* program in the very near future.

For those of you attending your initial *FIRST* event, we encourage you to understand the game, watch the competition, and realize that these robots were built in six weeks. The teams were given certain common elements - motors, controllers, radios, and miscellaneous structural parts - to keep the competition safe and provide a base level of performance. From that point, the designs diverge markedly as a result of students and mentors collaborating to solve this year's challenge. Join our expedition into the 30th season of *FIRST*®! Travel to the outer limits of the universe in INFINITE RECHARGE<sup>SM</sup>.

We encourage you to tour the "pits" and talk to the team members about their robots and impressions of the *FIRST* program. You'll be amazed by the enthusiasm that permeates these teams. While you're at it, ask the team members what Gracious Professionalism® means to them. Gracious Professionalism® is a way of achieving a goal that encourages high-quality work while respecting all individuals and their ideas. It also teaches that fierce competition and mutual gain are not separate notions.

The Miami Valley Planning Committee would like to thank all the organizations and people that support *FIRST* through funding, mentoring, education, motivation and all the other invaluable ways that help students achieve their best. We also thank the 150 volunteers that make an event like this possible. Special recognition needs to go out to the experienced *FIRST* volunteers that have traveled to Dayton to make this an unforgettable event for the teams. Enjoy the competition!

Miami Valley FIRST® Regional Planning Committee

## Public Agenda

### Competition Schedule

<b>Wednesday February 26</b>	
6:00PM-8:00PM	5 Team Reps to Load In

<b>Thursday February 27</b>	
7:45AM	5 Team Reps Load In
8:30AM	Pits, Machine Shop, Registration and Inspection Open
9:00AM-11:00AM	Driver's Meeting, Field Open for Measurement and Calibration
11:00AM-12:00PM	Lunch
12:00PM-6:30PM	Practice Matches
8:00PM	Pits and Machine Shop Close

<b>Friday February 28</b>	
8:00AM	Pits and Machine Shop Open
8:30AM-9:00AM	Opening Ceremonies
9:00AM-12:00PM	Qualification Matches
12:00PM-1:00PM	Lunch
1:00PM-5:45PM	Qualification Matches
5:45PM-6:15PM	Awards Ceremony (Pits close after the Ceremony)

<b>Saturday February 29</b>	
8:00AM	Pits and Machine Shop Open
8:30AM-9:00AM	Opening Ceremonies
9:00AM-12:15PM	Qualification Matches
12:15PM-12:30PM	Alliance Selections
12:30PM-1:30PM	Lunch
1:30PM-4:30PM	Playoff Matches
4:30PM-6:00PM	Awards Ceremony
6:30PM	Pits Close

### Activities Schedule

<b>Thursday February 27</b>	

<b>Friday February 28</b>	
1:00PM-4:00PM	FLL Jr., FLL, & FTC Demonstrations
9:00PM-4:00PM	Scholarship Row
12:15PM-12:45PM	WOW Mentor Meeting
1:00 PM	Invited Guest Event
6:00PM-10:00PM	Team Social

<b>Saturday February 29</b>	
8:00 AM-12:30PM	FLL Jr. Expo
9:00AM-1:00PM	FLL & FTC Demonstrations
9:00AM-1:00 PM	Scholarship Row

*\*\*Schedule subject to change. All times are estimated based on flow of rounds.  
See Pit Administration table for updated times*

## Event Location

The event will be at the:

**Nutter Center at Wright State University**  
**3640 Colonel Glenn Hwy #430**  
**Fairborn, OH 45324**

## Directions

### **Via Interstate 70 West**

1. Take exit 44 following I-675 S to Cincinnati
2. Take exit 17 for N Fairfield Rd Turn Right
3. Continue straight onto Raider Rd

### **Via Interstate 70 East**

1. Use the right 2 lanes to take exit 33A to merge onto I-75 S toward Dayton
2. Use the 2nd from the right lane to take exit 54B for OH-4 N toward Springfield
3. Take the exit toward W.P.A.F.B. Area a-C OH-444N
4. Turn left onto the OH-844 S/I-675 ramp to Wright State University
5. Take exit 1 for Col Glenn Hwy toward I-675 N and Turn Right
6. Turn Right onto Raider

### **Via Interstate 75 North**

4. Take Exit 43 for I-675 North to Columbus
5. Use the right 2 lanes to take exit 17 for N Fairfield Rd
6. Continue on N Fairfield Rd to your destination in Fairborn
7. Use the left 2 lanes to turn left onto N Fairfield Rd
8. Continue straight onto Raider Rd

### **Via Interstate 75 South**

1. Use the 2nd from the right lane to take exit 54B for OH-4 N toward Springfield
2. Take the exit toward W.P.A.F.B. Area a-C OH-444N
3. Turn left onto the OH-844 S/I-675 ramp to Wright State University
4. Take exit 1 for Col Glenn Hwy toward I-675 N and Turn Right
5. Turn Right onto Raider Rd

## Load In/Out

Please remember your GP and be courteous to others who are trying to load-in or out.

Teams are encouraged to use the **Wednesday Evening load-in times, from 6:00pm to 8:00pm**. We **ARE** allowing Wednesday evening setup. Teams will be staged first-come-first served in Parking Lot #5. Teams will be directed to QUICKLY unload pit materials and robots in the loading area then move their busses and team vehicles. We ask everyone to be patient and work with us as we try to move everyone through the process as efficiently as possible. Teams are **NOT ALLOWED** to work on their robots!

- Teams may only send in 5 people – remember safety glasses!
- At least 1 must be an adult
  - Teams are encouraged to bring 2 adults as 1 adult needs to move the vehicle before loading in team materials.
- Please have all materials ready for load-in – boxes, totes, etc. are much easier to move than individual items!
- You must move your vehicle before loading in.
- We will have a few hand carts and dollies available for those who need them
  - These will be on a first-come-first-serve basis.
- Optional- Robots may be stored in a robot holding area in the dock area so that they are not in the pits during your pit setup.
- For load-out, teams will need to have all their materials ready to load before having their trailer/bus pull in for load-out.

Teams who were unable to make the Wednesday night load-In may begin loading their tools/materials and robot in through the Loading Area beginning Thursday morning at 7:45am. 5 people ONLY. Teams may begin setup but no work may start until 8:30am, when the pits open.

Teams who were able to make the Wednesday Load-In/Setup **ARE** allowed back in Thursday morning, to complete their pit setup. 5 people only, are allowed in through the Loading Area beginning Thursday morning at 7:45am. But if it appears that your pit setup is complete then you must exit the Pit area and wait until 8:30am to return.


The Load-In area is for Load-In/Pit Setup Crew only and is **NOT** an alternative entrance to the Main Entrance for Thursday Morning. Do not send your entire team down to the Load-In area on Thursday, entry will only be at the Main Entrance.

We are able to offer Team Trailer/Truck parking this year. Trailer parking will be located in the same parking lot #5, please reference the map below.





## Parking


Nutter Center at Wright State University:

Robot Load In-Load Out - 

Team Entrance - 

FREE Open Parking including Truck/Trailers 

Truck/Trailer Overnight Parking 

Suggested Bus / Team Traffic for Competition Days 



## Team Meals

Teams can pre-order meals direct from the Nutter Center. These orders are due by Feb 12<sup>th</sup>, 2019. This is different than last year. On Thursday it is a preorder box lunch. On Friday and Saturday it is a buffet lunch on site (no box lunch available). These must be preordered- there is NO possibility of purchase after 12 Feb. Please see the form at this link:

<https://tinyurl.com/sw2ncve>

There are Gluten Free and Vegetarian Options on the form.

For those not choosing to pre-order your lunches or purchase food from the concession stands, there are several nearby restaurants.

For more details, go to <https://goo.gl/maps/cyQiGKXgzuH2> and click "Search nearby." You can search generally ("restaurant")

**NO OUTSIDE FOOD OR DRINK ALLOWED- last year we were not very strict and it jeopardized our use of this facility. This year NO outside food or drink is allowed. You may bring in empty water bottles to fill up. We will have paid security at the entrances who will be strictly enforcing this policy.**

## Lodging

We are using Experient this year for hotels. Please visit the follow link for local hotels.

<https://www.firstinspires.org/housing-travel>

## Nearby hardware / supply stores

1. Lowe's Home Improvement  
2850 Centre Dr I, Fairborn, OH 45324  
1.2 miles S
2. The Home Depot  
3775 Presidential Dr, Fairborn, OH 45324  
1.2 miles W
3. Handyman Ace Hardware  
122 E Dayton Yellow Springs Rd, Fairborn, OH 45324  
2.5 miles E



## Team Social

The MVR team social is sponsored by Dayton area teams. Reminder, it will be Friday night, Feb 28<sup>th</sup> from 6 to 10 at the Wright State Student Union. Cost is \$12 per student. This year we have a discounted rate for official mentors of \$5. (This is intended to encourage some additional adult help.)

NEW THIS YEAR! Online ticket sales!! This will make delivery of the tickets much easier and allow teams to either buy for their full team, or have individual students buy their own tickets. The link for the ticket sales is: <https://www.raisestem.org/mvr-team-social>

Please have your team start promoting, including Instagram and tweeting out some excitement!

## Charging Stations

There will be charging stations set up on the Concourse level on the right and left sides of the field for Laptop/Cell Phone charging. DO NOT plug in your own extension cords or power strips or they will be removed. DO NOT use any other outlets or power sources other than in the designated charging areas.

## Scouting/Media and Seats

There will be reserved seats in mid-field. These seats are intended for your Scouting Captains to have a view of the competition field and provide a known location for scouts in the stands to take scouting sheets. Additionally this location will be used for Media access. During opening and Closing Ceremonies, this area will be used by the Judges. Additionally VIP seating will be in this area as well. There is **NO** team media access to the competition floor.

**There is no seat saving at any time. Seat saving devices will be removed.**

## Inclement Weather

In the case of inclement weather, the venue will open for teams to be seated in the arena. The Pit area will remain **closed** until its assigned time for opening. Teams cannot congregate in the main entrance and must be seated in the arena until pits open.

## Practice Field

More details to come!

## **Machine Shop**

There will be a machine shop in-house this year with Lathe, Mill, Drill presses, Band Saws, Belt Sander, and various Hand tools. Please be aware of what you are asking of the Machine Shop. This is not a shop to build a highly complex part or assembly. This is for quick fixes and repairs.

For those utilizing 3D printed parts. We will have two Makerbot-2 printers for PLA plastic prints only. Don't forget your files.

We will NOT have welding capability on site.

The Machine shop will be located in the Loading dock area to the right of the Pit Area Concession stand.

## **Team Banners**

Unfortunately there are no locations in which Team Banners can be hung in the arena and we asked teams to respect the University and refrain from hanging signs and banners.

## **Ceremonies**

Teams are encouraged to attend the Opening Ceremonies, but we understand the need to continue to work on the robot. So during Opening Ceremonies teams are allowed 2-3 students and 1 mentor to continue working on their robot. No Noise and No Power Tool usage is allowed. The Practice field will be closed during Opening Ceremonies.

## **National Anthem**

We are looking for teams or team members who want to try out to sing the National Anthem on both Friday and Saturday. Tryouts will be at 1pm on Thursday and Friday. Please listen for announcements from Pit admin for the location to meet.

## **Judges Note**

The Judge Advisor would like to pass on this recommendation. Given the recent ability of teams to compete for the Chairman's Award at every event it has become difficult to get all the interviews completed in a timely manner. Given this challenge it is highly recommended that teams choose Chairman's presenters that are separate from those that are needed elsewhere during the competition, i.e. Drive Team or Pit Crew. Don't get surprised with conflicts in schedule. We want every team to compete at their best on and off the field.

## [Team Ambassadors](#)

Each Ambassador will have a nametag with an Ambassador ribbon attached, they will take our VIP's on tours after the VIP event on Friday. In addition, we will have a table in the front entry on Friday and Saturday to take visitors on tours and answer questions. We will work in shifts so the students won't be on duty for the whole competition. If you have students who would be great at this, have them sign up on [firstinspires.org](http://firstinspires.org). After they log in, they go to the volunteer Tab and volunteer for the Miami Valley Regional. Make sure they indicate they would like to be an ambassador.

## [Dean's List Finalists](#)

We are going to recognize past Dean's list winners and finalists with special nametags. If you have a student that will be attending the Miami Valley Regional and they won Dean's list at the Regional level in the past- please contact Katie at [kdunn@firstinspires.org](mailto:kdunn@firstinspires.org) and let her know the name of the student and your team #.

## [Safety Glass Station](#)

Similar to last year we are looking for team volunteers to staff the Safety Glass Station in shifts. If you have some students interested, please let us know. Fortunately with the new venue we only have 1 station that needs staffed.

## [Don't Forget](#)

ALL teams must submit their Printed roster from their FIRST Dashboard or hard copies of all the consent forms to ALL regional competitions that they attend. Please do NOT forget to bring these.

I hope everyone has been keeping up the [Team Updates](#) and [FRC Blog](#). There have been required updates announced in both the Team Updates and the FRC Blog. Please reference the links and confirm you are up to date. This will help to avoid significant delays in both inspection and your matches.

## [Venue Map](#)

Coming soon!